

A decorative graphic on the left side of the slide, consisting of a blue square, a yellow square, and a black square with a red diagonal line, all overlapping.

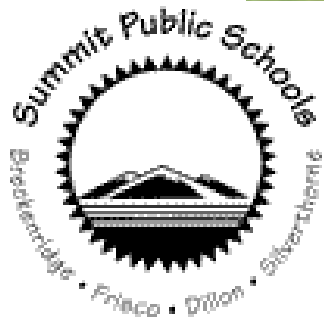
# Silverthorne Elementary

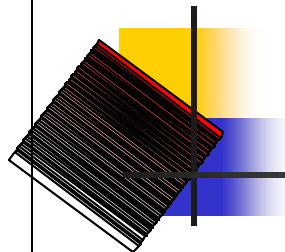
---

Mike Arnold  
Director of Operations &  
Maintenance



# Silverthorne Elementary



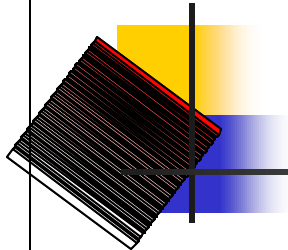


# About the School

---

Type:	K-5
Size:	62,000 sq. ft., 2-stories
Student Capacity:	450
Construction Cost:	\$9 million
Completion Date:	June 2004





# Sustainable Design Goals

## **Energy Efficiency**

- **Using Natural Resources**
- **Whole building energy analysis / Rebuild Colorado**
- **Building envelope, HVAC and lighting systems**
- **Building commissioning**
- **Integrated design process**

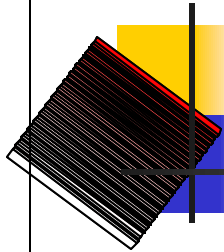
## **Quality Indoor Environment**

- **Low toxicity building products**
- **Fresh air ventilation**
- **Natural daylighting**

## **Environmental Responsibility**

- **Indoor water efficiency**
- **Environmentally appropriate landscaping**
- **Efficient transportation**
- **Electric automobile recharging stations**
- **Resource efficient building materials**





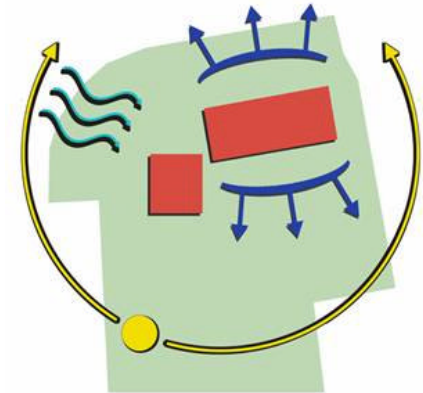
# Orientation

**North and south solar orientation for classroom and instruction spaces allows for direct light that is easily controlled.**

**Increasing the mass and insulation of the building envelope protects the building from the temperature swings at the heat of day and the cold of night.**

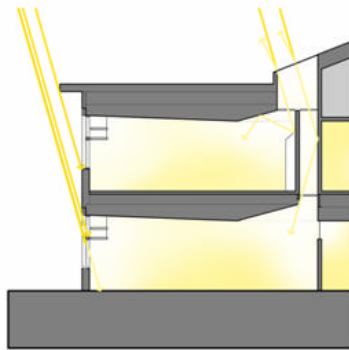
**Landscaping blocks winter storm winds and deposits snow at the edge of the property, away from entries and play areas.**

**Building mass opens up to stunning views of the surrounding valley and mountain ranges.**



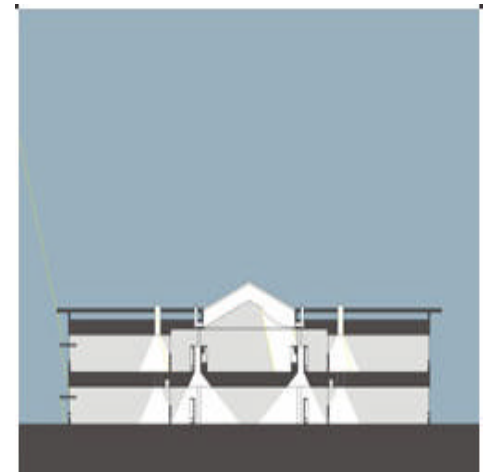
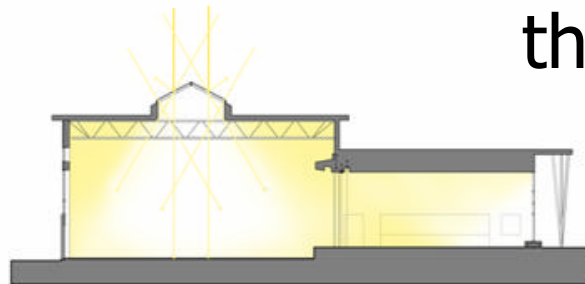


# Daylighting Design

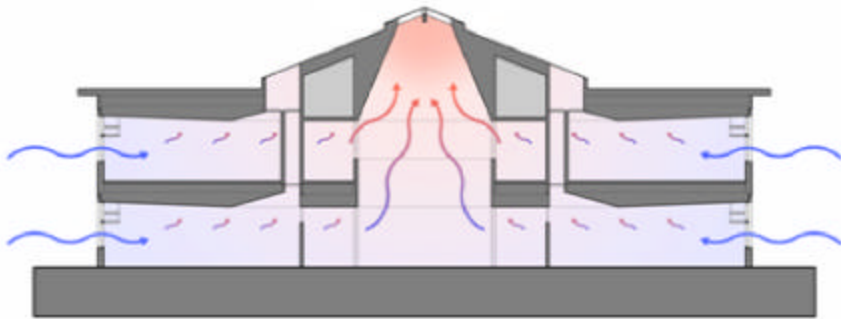


Guiding principle:

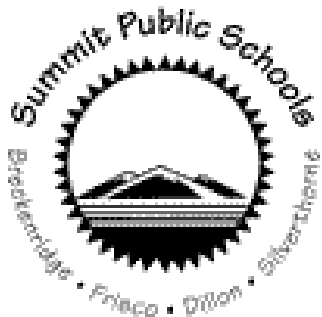
No electric lights  
should be needed in  
classrooms during  
the day.



# Natural Ventilation



The building has no mechanical cooling, except in the computer rooms and office. Instead, the building relies on natural ventilation from its operable windows.

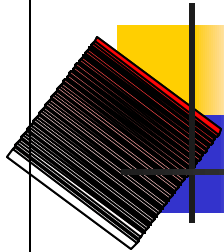




# Construction Photo







# Our Partners

---

